Platino Handheld Reader

User Guide

Reader Overview

1. ENTER
2. READ
3. SETTING
4. POWER
5. DIRECTIONS (UP, DOWN, LEFT, RIGHT)
6. NUMBER PAD (1,2,3…0,*,#)
7. FUNCTION 1 (F1)
8. FUNCTION 2 (F2)
9. FUNCTION 3 (F3)
10. Hard Reset Button (Under the rubber grip)

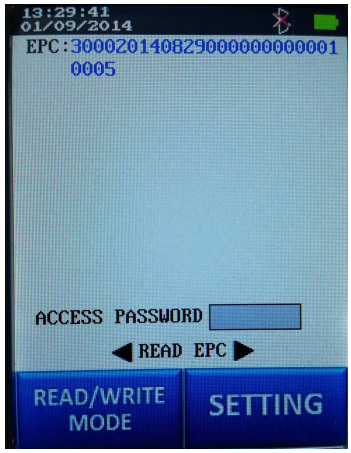
Basic Operations

Starting up Platino

Press the POWER button for a 2 seconds to power up the device. A “beep” sound should be heard and the main screen with the above information is shown when Platino is booted up.

Reading tags

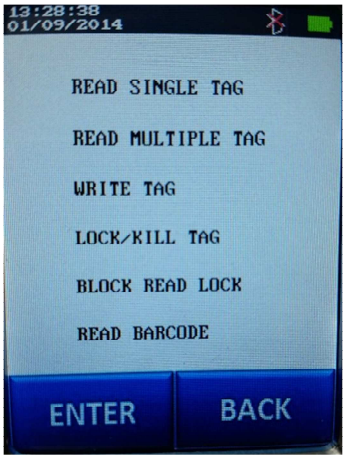
Press the READ button while Platino is ON. Put an ISOC tag near the antenna area and you should be able to read the tags EPC number.



Shutting down Platino

Press the POWER button for 2 seconds while Platino is ON. The main screen will shut down when Platino is off.

Read/Write Mode Selection



Press ENTER in any of the read/write mode to enter the read/write mode selection menu. Use the UP or DOWN button to navigate through different mode options and press ENTER to enter any of the available read/write mode.

Read Single Tag

Read data in different memory banks of a single tag. Data from only 1 tag will be displayed at a time. The data will also be automatically store in the reader memory and transmitted to the mobile app if available.

Read Multiple Tag

Read EPC from multiple tags in the reader vicinity. User can manually save the tags EPC to the reader memory with the function button. Up to 100 tags can be saved at a time.

Write Tag

Write data to different memory banks of a tag.

Lock/Kill Tag

Change the lock state of different memory banks of a tag with access password or disable a tag permanently with the kill password.

Block Read Lock

Custom command for Alien H3 chip which allows user to “read lock” different memory blocks of the user memory bank in a tag. Read locked data can only be viewed if the correct access password is provided.

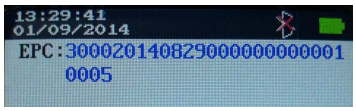
Read Barcode

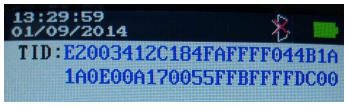
Read 1D barcode with the build-in barcode reader. User can manually save the barcode data to the reader memory with the function button.

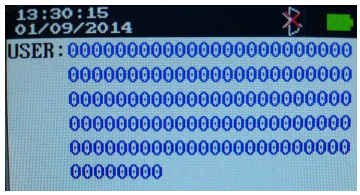
Reading Different Memory Banks

Platino starts in Read Single Tag mode. In this mode user can read a single tag by pressing the READ button. User can press LEFT and RIGHT button to select different memory banks to read. The following options are available:

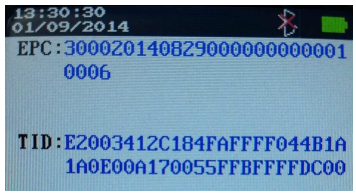
1. Read EPC
2. Read TID
3. Read User Data
4. Read EPC + TID
5. Read EPC + User Data
6. Read All Data

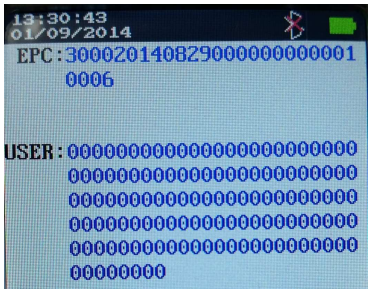




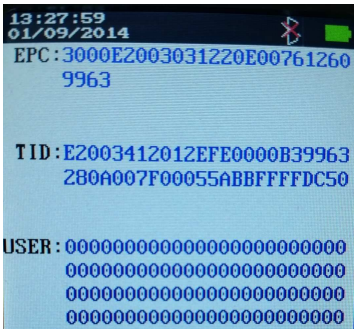


User can press UP or DOWN button to select the Access Password field. The field will be highlighted in blue once it is selected. Press F1 to switch between different input methods (number/alphabet) for the Access Password field. Access Password can be used to read memory bank that is “read-locked”.





Tag data read in this mode will be automatically stored in the file SINGLE.TXT in the reader memory. Please refer to the Collecting Data section of this manual for more information.

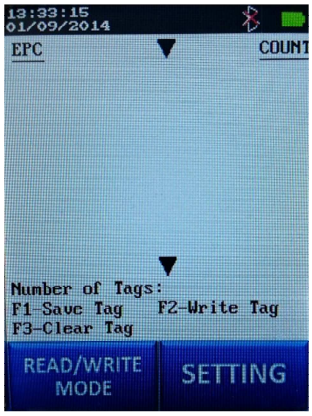


NOTE: Reading TID, User Memory and All Data may require more energy than reading the EPC number only. Please place the tag in close proximity to the antenna while attempting to read the TID, User Memory and All Data.

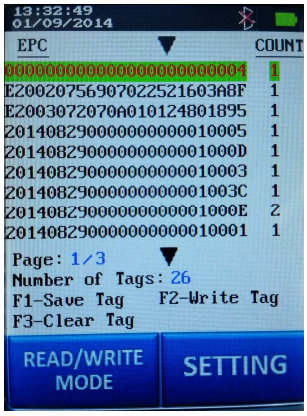
Reading Multiple Tags

Read Multiple Tag mode allows user to read multiple tags EPC simultaneously.

Press and hold the READ button to start reading tags. Any tag that is read will generate and new entry on the screen with the tag's EPC and read count shown. The total number of distinct tags is shown at the bottom of the screen.



Maximum of 9 tags can be displayed simultaneously on the screen, user can press the UP or DOWN button to go through the tag list and view the tags in the next page (e.g. if a total number of 27 tags are read, there will be 3 pages of data available).



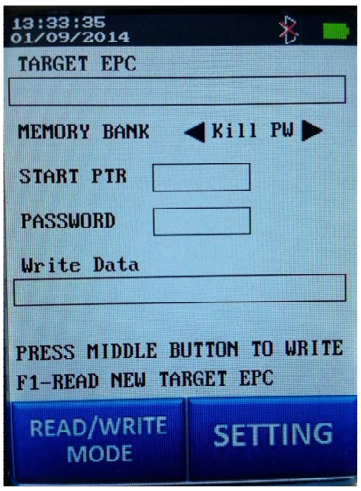
Press F1 to save the data into MULTIPLE.TXT in the reader memory. Please refer to the Collecting Data section of this manual for more information. The tag list on the screen will be cleared afterwards.

If user selected one of the tag with UP or DOWN button, pressing F2 will pass the selected EPC to the WRITE TAG mode so user can write data to the tag with specific EPC.

Press F3 to clear the tag list on screen.

Writing Data to Tag

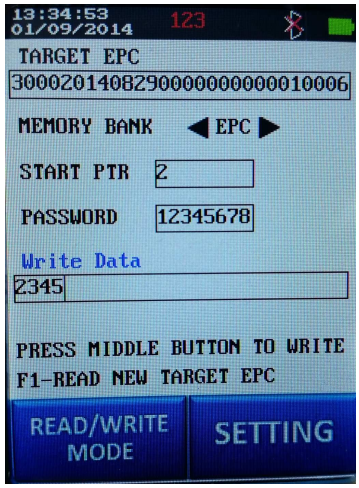
Write Tag mode allow user to write data to different memory bank of a specific tag.



Target EPC

User need to input a Target EPC through one of the following methods:

1. Press F1 in Write Tag mode to read a new tag. The tag's EPC will be displayed in the Target EPC field.
2. Read a tag in Read Single Tag mode, then press F2 to pass the EPC of that tag to Write Tag mode
3. Read tags in Read Multiple Tag mode, use UP or DOWN button to select one of the tag, then press F2 to pass the EPC of that tag to Write Tag mode
4. Manually input the Target EPC using the keyboard



Memory Bank

Once a target EPC is established, user can choose among the following field to write

1. Kill Password
2. Access Password
3. EPC
4. TID (not available)
5. User

Start Pointer

The start position of memory bank to write. Each pointer represent 16 bit (4 hexadecimal word) of data. Please note that Point 0 of EPC (checksum) is not available for writing.

Writing Data to Tag

Access Password

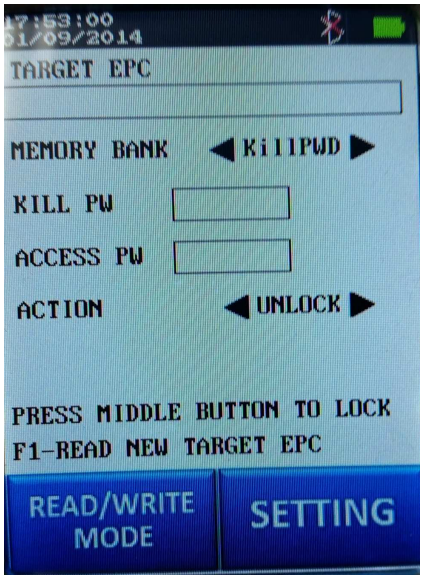
If the memory bank is previously locked with an access password, user will need to fill in the password field to successfully write to the tag. Once the field is selected, user can use the F1 button to switch between integer and alphabet input.

Write Data

Data to be written in the designated memory bank. Once the field is selected, user can use the F1 button to switch between integer and alphabet input.

Locking/Killing Tags

Lock/Kill Tag mode allow user to change the lock state of different memory bank in the tag or kill the tag with kill password.



Target EPC

User can press the F1 button to read the EPC of the tag to be locked/killed. Alternatively, by selecting the Target EPC field with UP or DOWN button and use the F1 button to change the input method between integer and alphabet

Memory Bank

The designated memory bank to perform the lock/kill action. The following memory banks are available

1. Kill Password
2. Access Password
3. EPC
4. TID (not available)
5. User

Kill Password

If user intend to use the kill function, a valid kill password must be input in this field. The default kill password (00000000) is not a valid kill password.

Access Password

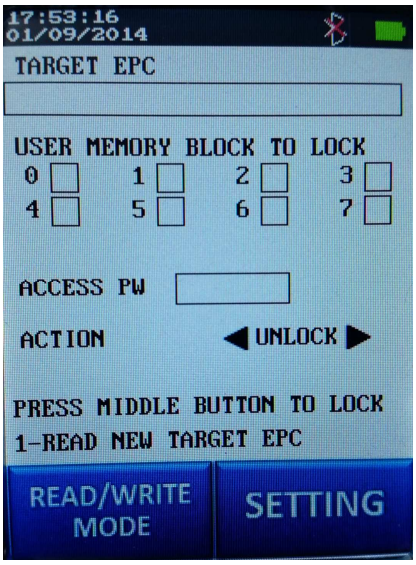
If user intend to use the lock function, a valid access password must be input in this field. The default access password (00000000) is not a valid access password.

Action

The following actions are available in this mode

1. Unlock – Set the designated memory bank to unlocked mode
2. PermaUnlock – Set the designated memory bank to permanently unlocked mode
3. Lock – Set the designated memory bank to locked mode
4. PermaLock – Set the designated memory bank to permanently locked mode
5. Kill – Permanently disable the tag with the kill password

Block Read Lock Command



Target EPC

User can press the F1 button to read the EPC of the tag to be locked/killed. Alternatively, by selecting the Target EPC field with UP or DOWN button and use the F1 button to change the input method between integer and alphabet

User Memory Block to Lock

Use the number buttons on the number pad to choose which memory blocks will be locked/unlocked by the function. Multiple memory blocks can be chosen at once.

Access Password

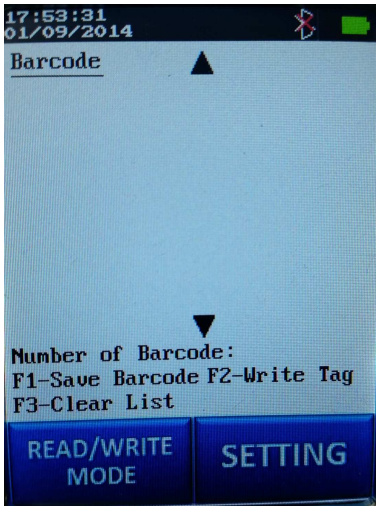
A non-zero access password must be assigned first before the lock function can be performed. User can input the assigned password in this field to perform the lock function. Press the F1 button to change the input between number/alphabet

Action

Choose to lock or unlock the selected memory blocks in “User Memory Blocks to Lock” field.

Reading Barcode

Read Barcode mode allow user to read 1D barcode using the scanner below the antenna.



Press and hold the READ button to start reading tags. Any barcode that is read will generate and new entry on the screen with the barcode data. The total number of distinct barcode is shown at the bottom of the screen.

Maximum of 9 barcode data can be displayed simultaneously on the screen, user can press the UP or DOWN button to go through the barcode list and view the barcode in the next page (e.g. if a total number of 27 barcode are read, there will be 3 pages of data available).

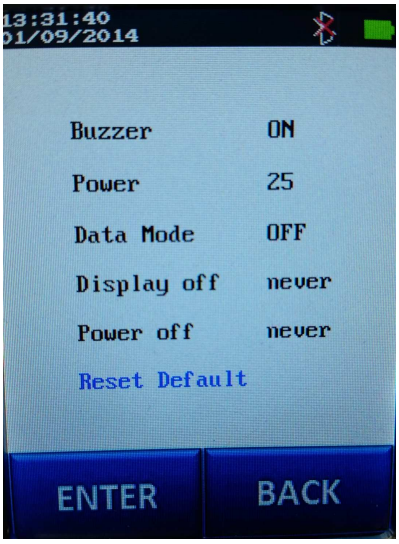
Press F1 to save the data into BARCODE.TXT in the reader memory. Please refer to the Collecting Data section of this manual for more information. The barcode list on the screen will be cleared afterwards.

If user selected one of the tag with UP or DOWN button, pressing F2 will pass the selected barcode data to the WRITE TAG mode in the “Write Data” field so user can write the content into the tag.

Press F3 to clear the barcode list on screen.

Reader Setting

Press the SETTING button in most of the read mode will bring up the setting page



Buzzer

Turn on/off the buzzer which make sound when a tag is read or button is pressed

Power

Conducted power of the reader to read RFID tags. Range from 10-30 dBm. Please note that user will need to press the READ button to confirm the change for power setting. Higher power may result in better read/write performance in exchange of higher power consumption.

Data Mode

External data connection for Platino. User can choose from the follow modes

1. USB

   Allow Platino to be connected as a USB memory device from a PC. User can extract the read data from the reader in this mode. There are also specific parameter that can only be changed in the USB mode, please refer to “Parameter Configuration” section for more detail.

   Please note that after USB mode is selected, Platino will not be able to store tag read data into the memory anymore. To restore saving tag data to memory in Read Single Tag, Read Multiple Tag and Read Barcode mode, user has to power OFF the reader and power ON again to restore the connectivity.

2. Serial

   Allow Platino to be connected as a COM port device from a PC. User can re-sync the time of Platino and send serial command to Platino for future functions

Reader Setting

Display Off

Controls how long the display of Platino would be automatically turned off. WiFi/Bluetooth connectivity remains when display is off.

Power Off

Controls how long Platino would automatically power off. WiFi/Bluetooth connectivity will be broken when reader is power off.

Reset Default

Reset all settings of the reader except those described in “Parameter Setting” section. In case the WiFi module cannot be connected due to incorrect setting, this option also reset all WiFi settings to the default state.

Collecting Data

Connect Platino to a computer with the provided USB cable. Change the data mode in the setting menu to USB. Wait for the USB drive to be detected by the computer operating system. You can find **SINGLE.txt, MULTIPLE.txt** and **BARCODE.txt** file inside the "datafile" directory.

SINGLE.TXT

```
15/08/2014 14:33:11,3000123400000000000000000030,,,Platino001
15/08/2014 14:33:14,,E20034120132F0000AD542BF2019008070055FFBFFFFDC60,,Platino001
15/08/2014 14:33:18,,,000000000000000
```

Collecting Data

SINGLE.TXT Data Structure

[Date] [Time], [EPC],[TID],[UserData],[SerialNo]

Examples:

Reading EPC

15/08/2014 14:33:11,300012340000000000000000030,,,Platino001

Reading TID

15/08/2014
14:33:14,,E20034120132F0000AD542BF2019008070055FFBFFFFDC60,,Platino001

Reading User Data

15/08/2014
14:33:18,,,000000000000000

Collecting Data

MULTIPLE.TXT Data Structure

[Date] [Time],[EPC],[ReadCount],[SerialNo]

Examples:

15/08/2014 14:33:35,300000000000054500000096005958,3,Platino001

Tag 300000000000054500000096005958 is bring read for 3 times

BARCODE.TXT Data Structure

[Date] [Time],[BARCODE],[SerialNo]

Examples:

15/08/2014 14:34:21,001C07030320,Platino001

Parameter Configuration

Through the USB port, you can also configure the following parameters of the reader by accessing **SysPar.ini** located in the **Config** folder

Sample content of SysPar.ini

PlatinoSP0006,1

Data Structure

[SerialNo],[WiFi/BT Mode]

SerialNo defines the Serial Number attached at the end of every record. The default serial number is PlatinoXXXXXX, but you may change the serial number to your own needs.

WiFi/BT Mode defines if the unit is operating in WiFi or BT Mode

1 = BT Mode

2 = WiFi Mode

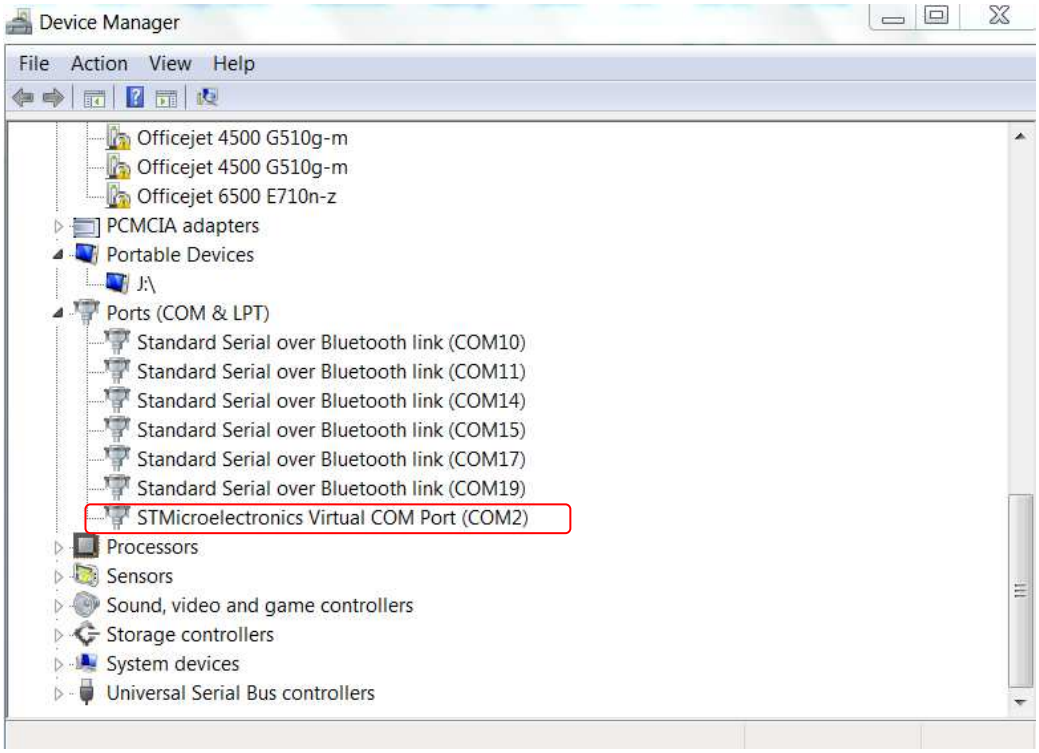
NOTE: After changing the parameters in SysPar.ini, please save the setting in the file and reboot the reader for the settings to take effect

Setting System Time

In order to change the system time of the Platino, the following steps will have to be followed closely in sequence.

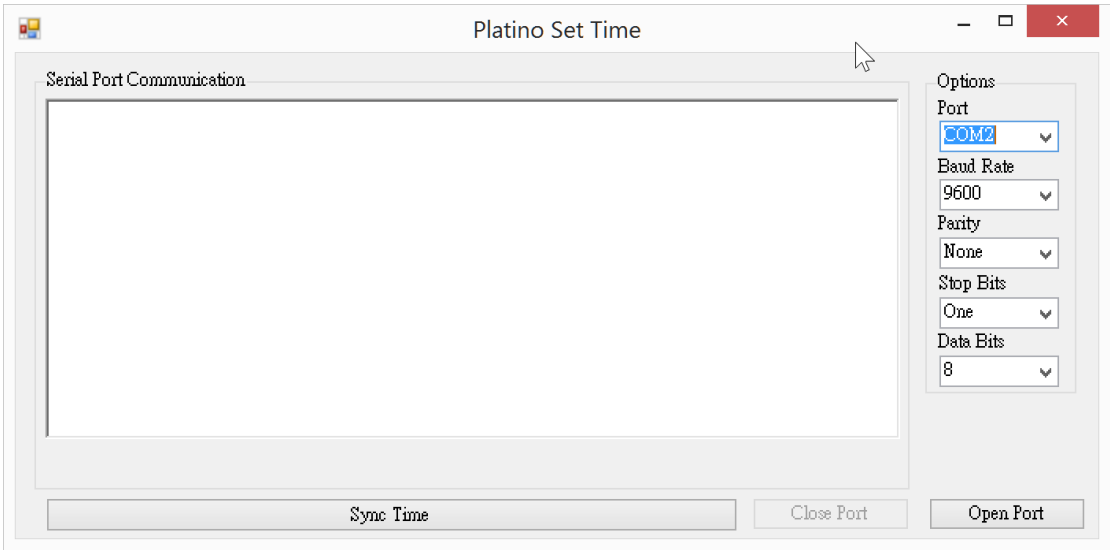
1. Install the virtual com port driver for Windows (VCPDriver_V1.1_Setup.exe) http://star-int.net/file_product/VCPDriver_V1.1_Setup.exe.zip
2. Connect the Platino to a PC via the USB cable
3. Enter the Setting menu, change the data mode to Serial

4. Check Device Manager for the com port number



5. Run the SetPlatinoSYSTime.exe

Setting System Time



6. Select the corresponding COM port and press “Open Port”. If the port is successfully connected, the following message will be shown in the text box

```
Port opened at 1/9/2014 12:20:54
```

7. Press the “Sync Time” button and the program will automatically extract the system time on the PC and sync it with Platino. The following message will be shown if the sync is successful

```
2014-09-01,12:26:27
?
OK
```

NOTE: If “OK” is not shown after the sync, please close the port and re-open it and sync again

Android + iOS Applications Support

The Platino supports connecting with existing popular mobile platforms with enhanced data collection features. For details please download the applications from below:

Platino WiFi Android App:
https://play.google.com/store/apps/details?id=com.ssi.Platino

Platino WiFi iOS App:
https://itunes.apple.com/us/app/Platino-receiver/id830129900

Platino Bluetooth (BLE) Android App:
https://play.google.com/store/apps/details?id=com.ssi.Platinoble

Platino Bluetooth (BLE) iOS App:
https://itunes.apple.com/us/app/Platino-ble/id871613628